[Name of Document] CLAIMS

[Claim 1]

A control system comprising:

control means that controls a process apparatus, which

performs a predetermined process on an object to be

processed, based on information to be detected in the

process apparatus; and

alarm generation means which generates an alarm when

the detected information is off a predetermined range,

wherein the control means grasps a generation state of

the alarm which is generated from the alarm generation means,

and gives warning when the generation state reaches a

predetermined threshold.

[Claim 2]

The control system according to claim 1, wherein the

control means can set a threshold of a generation state of

an alarm which is generated from the alarm generation means,

grasps the generation state of the alarm, and gives warning

when the generation state reaches the set threshold.

[Claim 3]

The control system according to claim 1, wherein the

process apparatus has a plurality of detection means, and

when an alarm is generated from one detection means, the

control means automatically starts grasping the alarm

generation state.

[Claim 4]

The control system according to claim 1, wherein the

process apparatus has a plurality of detection means, and

when an alarm is generated from a preset detection means,

the control means starts grasping the alarm generation state.

[Claim 5]

5   The control system according to claim 1, wherein the

alarm generation means is provided in the control means.

[Claim 6]

The control system according to claim 1, wherein the

generation state of the alarm is a number of alarm

10   generations within a predetermined time.

[Claim 7]

The control system according to claim 1, wherein the

generation state of the alarm is a time from an alarm

generation to a next alarm generation.

15   [Claim 8]

A control system comprising:

control means that controls a plurality of process

apparatuses, which perform predetermined processes on an

object to be processed, based on information to be detected

20   in the process apparatuses; and

alarm generation means which generates an alarm when

the information to be detected is off a predetermined range,

the control means including

a plurality of apparatus control units that

25   respectively control the plurality of process

apparatuses based on plural pieces of information to

be detected in the individual process apparatuses,

a host computer that receives partial information
from the individual process apparatuses and controls
the individual process apparatuses based on that
information, and

5   a control apparatus that receives all or nearly
all information from the individual process
apparatuses and controls the individual process
apparatuses based on that information, the control
apparatus including

10   means that collects information received
from the individual control units and alarm
information received from the alarm generation
means,

                    means that analyzes the collected

15   information, and

                    means that grasps a generation state of the
alarm generated based on the alarm information,
and gives warning when the generation state
reaches a predetermined threshold.

20   [Claim 9]

      The control system according to claim 8, wherein the
means that gives warning can set a threshold of a generation
state of an alarm which is generated from the alarm
generation means.

25   [Claim 10]

      The control system according to claim 8, wherein the
control apparatus further includes means that outputs a

result of the analysis and the generation state of the alarm.

[Claim 11]

The control system according to claim 8, wherein each of the process apparatuses has a plurality of detection means, and when an alarm is generated from one detection means, the control apparatus automatically starts grasping the alarm generation state.

[Claim 12]

The control system according to claim 8, wherein each of the process apparatuses has a plurality of detection means, and when an alarm is generated from a preset detection means, the control apparatus starts grasping the alarm generation state.

[Claim 13]

The control system according to claim 8, wherein the alarm generation means is provided in the control means.

[Claim 14]

The control system according to claim 8, wherein the generation state of the alarm is a number of alarm generations within a predetermined time.

[Claim 15]

The control system according to claim 8, wherein the generation state of the alarm is a time from an alarm generation to a next alarm generation.

[Claim 16]

A control method that controls a process apparatus, which performs a predetermined process on an object to be

processed, based on plural pieces of information to be detected in the process apparatus, the method comprising:

grasping a generation state of an alarm, which is generated when the detected information is off a

5   predetermined range; and

giving warning when the generation state reaches a predetermined threshold.

[Claim 17]

The control method according to claim 16, further

10   comprising setting a threshold of a generation state of the alarm which is generated when detected process information is off a predetermined range, grasping the generation state of the alarm, and giving warning when the generation state reaches the set threshold.

15   [Claim 18]

The control method according to claim 16, wherein the process apparatus has a plurality of detection means, and when an alarm is generated from one detection means, grasping the alarm generation state automatically starts.

20   [Claim 19]

The control method according to claim 16, wherein the process apparatus has a plurality of detection means, and when an alarm is generated from a preset detection means, grasping the alarm generation state starts.

25   [Claim 20]

The control method according to claim 16, wherein the generation state of the alarm is a number of alarm

generations within a predetermined time.

[Claim 21]

The control method according to claim 16, wherein the generation state of the alarm is a time from an alarm

5   generation to a next alarm generation.

[Claim 22]

A process system comprising a process apparatus which performs a predetermined process on an object to be processed, and a control system which controls the process

10   apparatus,

the control system including:

control means that controls a process apparatus, which performs a predetermined process on an object to be processed, based on information to be detected in the

15   process apparatus; and

alarm generation means which generates an alarm when the detected information is off a predetermined range,

wherein the control means grasps a generation state of the alarm which is generated from the alarm generation means,

20   and gives warning when the generation state reaches a predetermined threshold.

[Claim 23]

A process system comprising which performs a predetermined process on an object to be processed, and a

25   control system which controls the process apparatus,

the control system including:

control means that controls a plurality of process

apparatuses, which perform predetermined processes on an
object to be processed, based on information to be detected
in the process apparatuses; and

alarm generation means which generates an alarm when
5 the information to be detected is off a predetermined range,
the control means including

a plurality of apparatus control units that
respectively control the plurality of process
apparatuses based on plural pieces of information to be
10 detected in the individual process apparatuses,

a host computer that receives partial information
from the individual process apparatuses and controls
the individual process apparatuses based on that
information, and

15 a control apparatus that receives all or nearly
all information from the individual process apparatuses
and controls the individual process apparatuses based
on that information, the control apparatus including

means that collects information received
20 from the individual control units and alarm
information received from the alarm generation
means,

means that analyzes the collected
information, and

25 means that grasps a generation state of the
alarm generated based on the alarm information,
and gives warning when the generation state

reaches a predetermined threshold.

[Claim 24]

A computer readable storage medium containing software that allows a computer to control a process apparatus, which performs a predetermined process on an object to be processed, based on plural pieces of information to be detected in the process apparatus,

wherein the software grasps a generation state of an alarm, which is generated when the detected information is off a predetermined range, and gives warning when the generation state reaches a predetermined threshold.

[Claim 25]

A computer program containing software that allows a computer to control a process apparatus, which performs a predetermined process on an object to be processed, based on plural pieces of information to be detected in the process apparatus,

wherein the software grasps a generation state of an alarm, which is generated when the detected information is off a predetermined range, and gives warning when the generation state reaches a predetermined threshold.